

**Table C24. Fuel Oil Expenditures by Census Region, 1999**

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars)							
					per Gallon				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings .....	704	27	180	45	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
<b>Building Floorspace (Square Feet)</b>												
1,001 to 10,000 .....	196	Q	75	Q	0.86	Q	0.98	Q	0.28	Q	0.20	Q
10,001 to 100,000 .....	313	Q	Q	Q	0.73	0.76	0.74	0.75	0.18	Q	0.05	Q
Over 100,000 .....	196	12	56	Q	0.59	0.75	0.82	0.72	0.07	0.01	0.02	0.01
<b>Principal Building Activity</b>												
Education .....	164	Q	Q	Q	0.60	Q	0.59	Q	0.18	Q	0.09	Q
Mercantile and Service .....	Q	Q	Q	Q	0.81	Q	0.93	Q	0.15	Q	Q	Q
Office .....	113	3	47	Q	0.74	0.94	0.93	0.88	0.09	0.00	0.04	0.01
Public Assembly .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage .....	28	Q	Q	Q	0.74	Q	Q	Q	0.06	Q	Q	Q
All Others .....	182	9	Q	Q	0.72	0.76	0.83	0.87	0.15	0.01	0.04	Q
<b>Year Constructed</b>												
1945 or Before .....	228	Q	Q	Q	0.74	Q	Q	Q	0.16	Q	Q	Q
1946 to 1959 .....	130	Q	Q	Q	0.75	Q	Q	Q	0.13	Q	Q	Q
1960 to 1969 .....	143	Q	34	Q	0.72	Q	0.73	Q	0.16	Q	0.05	Q
1970 to 1979 .....	95	Q	Q	4	Q	0.66	0.71	0.93	0.11	Q	0.03	0.01
1980 to 1989 .....	Q	Q	Q	Q	0.73	0.80	0.79	0.82	0.10	Q	Q	Q
1990 to 1999 .....	34	Q	Q	Q	0.60	0.99	1.21	0.80	0.06	Q	Q	Q
<b>Climate Zone: 45-Year Average</b>												
Under 2,000 CDD and --												
More than 7,000 HDD .....	196	Q	N	Q	0.70	0.83	N	Q	0.23	Q	N	Q
5,500-7,000 HDD .....	299	13	N	Q	0.72	0.73	N	0.80	0.13	0.01	N	Q
4,000-5,499 HDD .....	209	Q	125	Q	0.71	Q	0.79	0.75	0.09	Q	0.09	Q
Fewer than 4,000 HDD .....	N	N	Q	5	N	N	1.05	0.99	N	N	Q	0.01
2,000 CDD or More and --												
Fewer than 4,000 HDD .....	N	N	13	Q	N	N	1.03	Q	N	N	0.01	Q
<b>Workers (main shift)</b>												
Less than 10.....	197	Q	58	Q	0.86	Q	0.99	Q	0.18	Q	0.15	Q
10 to 99.....	339	Q	Q	Q	0.71	0.73	0.81	0.61	0.20	0.02	0.07	0.03
100 or More.....	169	13	60	14	0.59	0.76	0.80	0.87	0.07	0.01	0.02	0.01
<b>Weekly Operating Hours</b>												
48 or fewer.....	136	Q	48	Q	0.74	Q	0.80	Q	0.14	Q	0.08	Q
49 to 84.....	311	4	51	Q	0.74	1.05	0.79	0.66	0.18	0.01	0.04	Q
85 to 168.....	193	14	Q	Q	0.66	0.74	0.79	0.79	0.10	0.01	Q	Q
<b>Ownership and Occupancy</b>												
Nongovernment Owned .....	507	17	148	21	0.75	0.86	0.94	0.84	0.13	0.01	0.05	0.02
Owner Occupied .....	432	16	125	19	0.74	0.85	0.93	0.83	0.13	0.01	0.05	0.02
Nonowner Occupied .....	75	Q	Q	Q	Q	Q	0.98	Q	0.15	Q	Q	Q
Unoccupied .....	Q	N	Q	N	Q	N	Q	N	Q	N	Q	N
Government Owned .....	198	Q	Q	Q	0.61	0.69	0.61	0.77	0.12	Q	0.04	0.07
Federal .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
State .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Local .....	169	Q	Q	Q	0.61	Q	0.58	Q	0.18	Q	0.05	Q
<b>Vacancy Status</b>												
Completely Vacant.....	N	N	N	N	N	N	N	N	N	N	N	N
Mostly Vacant.....	Q	N	N	Q	Q	N	N	Q	Q	N	N	Q
Partially Vacant .....	106	2	15	Q	0.71	0.88	0.96	0.66	0.08	0.00	0.01	Q
Not At All Vacant .....	594	25	165	Q	0.71	0.78	0.85	0.82	0.15	0.01	0.06	0.03

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					per Gallon				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>Number of Establishments</b>												
One .....	522	23	143	39	0.71	0.78	0.85	0.80	0.15	0.01	0.06	0.04
2 to 5 .....	103	Q	Q	Q	0.70	Q	0.93	Q	0.14	Q	Q	Q
6 to 10 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20 .....	Q	Q	Q	1	0.83	Q	0.84	0.96	0.03	Q	Q	0.00
Currently Unoccupied .....	Q	N	Q	N	Q	N	Q	N	Q	N	Q	N
<b>Energy Sources (more than one may apply)</b>												
Electricity .....	702	27	180	45	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
Natural Gas .....	194	17	70	Q	0.64	0.85	0.88	0.70	0.08	0.01	0.03	0.01
Fuel Oil .....	704	27	180	45	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
District Heat .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane .....	195	Q	Q	Q	0.71	Q	0.90	Q	0.18	Q	0.10	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Space-Heating Energy Source</b>												
Fuel Oil .....	694	19	163	Q	0.71	0.73	0.85	0.75	0.19	0.03	0.14	0.13
Fuel Oil Main .....	621	Q	143	Q	0.70	Q	0.85	Q	0.22	Q	0.20	Q
Fuel Oil Secondary .....	73	12	20	Q	0.75	0.80	0.85	Q	0.09	0.02	0.05	Q
Other Excluding Fuel Oil .....	10	8	15	11	0.78	0.97	0.89	0.97	0.01	0.00	0.01	0.01
Buildings without Heating .....	N	N	Q	Q	N	N	Q	Q	N	N	Q	Q
<b>Primary Space-Heating</b>												
Energy Source												
Electricity .....	Q	Q	Q	Q	0.88	Q	0.95	0.90	Q	Q	0.01	Q
Natural Gas .....	31	16	16	7	0.63	0.85	0.81	1.02	0.03	0.01	0.01	0.01
Fuel Oil .....	621	Q	143	Q	0.70	Q	0.85	Q	0.22	Q	0.20	Q
District Heat .....	3	Q	Q	Q	0.89	Q	Q	Q	0.00	Q	Q	Q
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.26
Other .....	Q	Q	N	N	Q	Q	N	N	Q	N	N	N
<b>Cooling Energy Source</b>												
Fuel Oil .....	Q	Q	Q	N	Q	Q	Q	N	Q	Q	Q	N
Other Excluding Fuel Oil .....	530	23	159	Q	0.69	0.78	0.85	0.88	0.12	0.01	0.04	Q
Buildings without Cooling .....	150	Q	Q	Q	0.80	Q	Q	Q	0.19	Q	Q	Q
<b>Water-Heating Energy Source</b>												
Fuel Oil .....	386	Q	Q	Q	0.68	Q	0.73	Q	0.23	Q	0.14	Q
Other Excluding Fuel Oil .....	244	17	105	28	0.73	0.86	0.90	0.86	0.08	0.01	0.03	0.02
Buildings without Water Heating .....	74	Q	Q	Q	0.84	Q	0.95	Q	0.11	Q	0.08	Q
<b>Cooking Energy Source</b>												
Fuel Oil .....	Q	Q	Q	N	Q	Q	Q	N	Q	Q	Q	N
Other Excluding Fuel Oil .....	294	14	Q	Q	0.65	0.72	0.71	0.70	0.10	0.01	0.03	0.02
Buildings without Cooking .....	405	12	104	26	0.76	0.89	1.00	0.88	0.17	0.01	0.08	0.04
<b>Energy End Uses (more than one may apply)</b>												
Buildings with Space Heating .....	704	27	178	44	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
Buildings with Cooling .....	555	23	159	Q	0.69	0.78	0.85	0.88	0.12	0.01	0.04	Q
Buildings with Water Heating .....	630	26	152	42	0.70	0.77	0.84	0.78	0.13	0.01	0.04	0.03
Buildings with Cooking .....	299	15	Q	Q	0.65	0.72	0.71	0.70	0.10	0.01	0.03	0.02
Buildings with Manufacturing .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation .....	159	12	Q	Q	0.63	0.83	0.93	0.88	0.06	0.01	Q	Q

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<b>Percent of Floorspace Heated</b>												
Not Heated .....	N	N	Q	Q	N	N	Q	Q	N	N	Q	Q
1 to 50 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
51 to 99 .....	69	Q	Q	Q	0.77	Q	0.96	0.89	0.09	Q	Q	Q
100 .....	597	24	122	Q	0.70	0.75	0.82	0.77	0.14	0.01	0.05	0.04
<b>Heating Equipment (more than one may apply)</b>												
Heat Pumps .....	23	Q	Q	Q	0.63	Q	0.94	1.21	0.04	Q	Q	Q
Furnaces .....	136	Q	Q	Q	0.82	Q	1.14	Q	0.15	Q	Q	Q
Individual Space Heaters .....	Q	7	Q	Q	0.70	0.86	0.86	0.79	0.07	0.01	0.03	Q
District Heat .....	Q	Q	2	Q	0.66	Q	0.74	Q	Q	Q	0.00	Q
Boilers .....	554	20	107	23	0.68	0.72	0.76	0.71	0.16	0.01	0.07	0.02
Packaged Heating Units .....	84	4	Q	6	0.64	0.88	1.02	0.97	0.06	0.00	Q	0.01
Other .....	23	Q	Q	Q	0.68	Q	0.75	Q	0.06	Q	Q	Q
<b>Water Heating Equipment</b>												
Centralized System .....	450	17	132	Q	0.70	0.77	0.84	0.78	0.17	0.02	0.07	Q
Distributed System .....	Q	Q	Q	Q	0.75	Q	0.90	Q	0.11	Q	Q	Q
Combination of Centralized and Distributed System .....	86	7	7	7	0.64	0.76	0.81	0.73	0.07	0.01	0.01	0.01
<b>Annual Consumption (gallons)</b>												
1,000 or Less .....	43	7	23	7	0.99	1.24	1.11	1.13	0.02	0.00	0.01	0.01
1,001 to 5,000 .....	186	6	71	18	0.85	0.87	0.94	0.90	0.17	0.02	0.10	0.07
5,001 to 10,000 .....	121	Q	Q	Q	0.78	Q	Q	Q	0.25	Q	Q	Q
10,001 to 25,000 .....	95	Q	Q	Q	0.69	Q	Q	Q	0.19	Q	Q	Q
Over 25,000 .....	260	Q	Q	Q	0.59	Q	Q	Q	0.19	Q	Q	Q

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.

N=No responding cases in sample.

Notes: \* Statistics for the "energy end uses" represent consumption in buildings that have the end use, not consumption for a particular fuel for a particular end use. \* Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.